



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

FORM OGC 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

☒ APPLICATION TO DRILL ☐ DEEPEN ☐ PLUG BACK ☒ FOR AN OIL WELL ☒ OR GAS WELL

NAME OF COMPANY OR OPERATOR
PENSE BROTHERS DRILLING CO., INC.
ADDRESS
P.O. Box 551
CITY
FREDERICKTOWN
DATE
8/23/93
STATE
MO
ZIP CODE
63645

DESCRIPTION OF WELL AND LEASE
NAME OF LEASE
W. R. McMAHON, ET UX
WELL NUMBER
3 (DEVELOPMENTAL PER FAX 7/30/93)
ELEVATION (GROUND)
960 (TOPO)
WELL LOCATION
(GIVE FOOTAGE FROM SECTION LINE)

WELL LOCATION
NE/4 SE/4 SECTION 5 TOWNSHIP 43 N RANGE 33 W COUNTY CASS
NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE
1488 FT. FROM (S) SECTION LINE 1080 FEET FROM (E) SECTION LINE

DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED — FOR WELL ON THE SAME LEASE
167 FEET
421.9 FEET

PROPOSED DEPTH
325'
DRILLING CONTRACTOR, NAME AND ADDRESS
PENSE BROS. DRG. CO., INC. Box 551
ROTARY OR CABLE TOOLS
ROTARY (AIR)
APPROX. DATE WORK WILL START
ON PERMIT
NUMBER OF ACRES IN LEASE
40
NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR
3
NUMBER OF ABANDONED WELLS ON LEASE
0

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?
NAME
N/A
ADDRESS
N/A
NO OF WELLS: PRODUCING 1
INJECTION 0
INACTIVE 1
ABANDONED 0

STATUS OF BOND
☐ SINGLE WELL AMOUNT \$
☒ BLANKET BOND AMOUNT \$20,000.00
☒ ON FILE
☐ ATTACHED

REMARKS. (IF THIS IS AN APPLICATION TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING ZONE AND EXPECTED NEW PRODUCING ZONE; USE BACK OF FORM IF NEEDED.)

N/A

PROPOSED CASING PROGRAM				APPROVED CASING — TO BE FILLED IN BY STATE GEOLOGIST			
AMOUNT	SIZE	WT/FT	CEM.	AMOUNT	SIZE	WT/FT	CEM.
<u>50'</u>	<u>7"</u>	<u>17 LB</u>	<u>TO SURF</u>				
<u>TD TO SURF</u>	<u>4 1/2"</u>	<u>10.5 LB.</u>	<u>TO SURF</u>				

I, the undersigned, state that I am the ASSISTANT VICE-PRESIDENT of the PENSE BROS. DRG. CO., Inc. (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.

SIGNATURE
B. E. Blawett
B. E. BLAWETT
DATE
8/23/93

PERMIT NUMBER
#20568
APPROVAL DATE (By FAX)
7/30/93
APPROVED BY
James H. Williams
☒ DRILLER'S LOG REQUIRED ☒ E-LOGS REQUIRED IF RUN
☒ CORE ANALYSIS REQUIRED IF RUN ☒ DRILL STEM TEST INFO. REQUIRED IF RUN
☐ SAMPLES REQUIRED
☒ SAMPLES NOT REQUIRED
☐ WATER SAMPLES REQUIRED AT _____

NOTE: THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION
APPROVAL OF THIS PERMIT BY THE OIL AND GAS COUNCIL DOES NOT CONSTITUTE ENDORSEMENT OF THE GEOLOGIC MERITS OF THE PROPOSED WELL NOR ENDORSEMENT OF THE QUALIFICATIONS OF THE PERMITTEE.

I, _____ of the _____ Company confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative.

DRILLER'S SIGNATURE
DATE
SEP 01 1993



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

Form OGC-5

☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ INJECTION ☐ SAME RESERVOIR ☐ DIFFERENT RESERVOIR ☐ OIL ☐ GAS ☐ DRY

OWNER <i>PENSE BROTHERS DRILLING CO., INC.</i>		ADDRESS <i>P.O. Box 551, FREDERICKTOWN, MO 63645</i>	
LEASE NAME <i>W. R. McMAHON, ET UX</i>		WELL NUMBER <i>-3-</i>	
LOCATION <i>NE 1/4 SE 1/4</i>		SEC. TWP. AND RANGE OR BLOCK AND SURVEY <i>5, T43N, R33W, CASS CO. MO</i>	
COUNTY <i>CASS</i>	PERMIT NUMBER (OGC-3 OR OGC-4) <i>20568</i>	PLEASE INSERT NO. OF PERMIT	
DATE SPUED <i>8/05/93</i>	DATE TOTAL DEPTH REACHED <i>8/06/93</i>	DATE COMPLETED READY TO PRODUCE OR INJECT <i>8/29/93</i>	ELEVATION (DF, RKR, RT, OR Gr.) FEET <i>960' (TDPO)</i>
TOTAL DEPTH <i>325'</i>	PLUG BACK TOTAL DEPTH <i>N/A</i>	ELEVATION OF CASING HD. FLANGE FEET	
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION <i>284' TO 304'</i>		ROTARY TOOLS USED (INTERVAL) TO <i>8" TO TD (325')</i>	CABLE TOOLS USED (INTERVAL) <i>N/A</i>
WAS THIS WELL DIRECTIONALLY DRILLED? <i>N/A</i>		DRILLING FLUID USED <i>AIR + WATER</i>	DATE FILED <i>N/A</i>
WAS DIRECTIONAL SURVEY MADE? <i>N/A</i>		WAS COPY OF DIRECTIONAL SURVEY FILED? <i>N/A</i>	DATE FILED <i>9/28/93</i>
TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) <i>GAMMA RAY - NEUTRON</i>			

CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)

PURPOSE	SIZE HOLE DRILLED	SIZE CASING SET	WEIGHT (LB. FT)	DEPTH SET	SACKS CEMENT	AMOUNT PULLED
<i>SURF</i>	<i>9 5/8"</i>	<i>7"</i>	<i>19 LB.</i>	<i>52' 04"</i>	<i>5</i>	<i>NIL</i>
<i>PROD. CSG</i>	<i>6 1/4"</i>	<i>4 1/2"</i>	<i>10.5 LB.</i>	<i>320'</i>	<i>52</i>	<i>NIL</i>

TUBING RECORD

LINER RECORD

SIZE	DEPTH SET	PACKER SET AT	SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
<i>2 3/8"</i>	<i>IN. 290 FEET</i>	<i>FEET</i>	<i>INCH</i>	<i>FEET</i>	<i>FEET</i>		<i>FEET</i>

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
<i>2</i>	<i>3-1/8" DMX-HSC</i>	<i>284-304</i>	<i>2/30 10/20 3500 LBS SAND + 8-12</i>	<i>(25 BALL SECTIONS USED) 284-304</i>
			<i>100 GAL 15% HCL ACID</i>	<i>284-304</i>

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION <i>9/08/93</i>		PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING - IF PUMPING, SHOW SIZE AND TYPE OF PUMP) <i>PUMPING 4' - 1 1/2" PUMP</i>				
DATE OF TEST <i>9/08/93</i>	HOURS TESTED <i>24</i>	CHOKE SIZE <i>NIL</i>	OIL PRODUCED DURING TEST <i>24</i> bbls.	GAS PRODUCED DURING TEST <i>4</i> MCF	WATER PRODUCED DURING TEST <i>10</i> bbls.	OIL GRAVITY <i>33.4</i> API (CORR)
TUBING PRESSURE <i>NIL</i>	CASING PRESSURE <i>+ STM</i>	CAL'ED RATE OF PRODUCTION PER 24 HOURS <i>24 BBLs</i>		OIL <i>24</i> bbls.	GAS <i>4</i> MCF	WATER <i>10</i> bbls.
DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD) <i>VENTED</i>			GAS OIL RATIO <i>166-1</i>			

METHOD OF DISPOSAL OF MUD PIT CONTENTS

CUTTINGS ONLY IN PIT - NO ADDITIVES - TO BE OVERFILLED WITH TOPSOIL

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE *ASSISTANT VICE PRESIDENT* OF THE *PENSE BROTHERS DRILLING CO., INC.* COMPANY, AND THAT I AM AUTHORIZED BY SAID COMPANY TO MAKE THIS REPORT, AND THAT THIS REPORT WAS PREPARED UNDER MY SUPERVISION AND DIRECTION AND THAT THE FACTS STATED THEREIN ARE TRUE, CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE

DATE <i>9/28/93</i>	SIGNATURE <i>B. E. Blumatt</i>
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INSTRUCTIONS: ATTACH DRILLERS LOG OR OTHER ACCEPTABLE LOG OF WELL.

* SHOW ALL IMPORTANT ZONES OF POROSITY, DETAIL OF ALL CORES, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

DETAIL OF FORMATIONS PENETRATED

FORMATION	TOP	BOTTOM	DESCRIPTION (SEE * ABOVE)
	0	12	TOPSOIL TO SANDY CLAY
	12	35	CLAY + SHALE, SANDY, CALCAREOUS
	35	40	LIMESTONE
	40	54	SHALE
	54	86	LIMESTONE
	86	96	SHALE
	96	114	LIMESTONE
	114	122	SHALE
	122	130	LIMESTONE
	130	133	SHALE
	133	137	LIMESTONE
	137	238	SHALE, SHOWS PYRITE, SANDY SHALE
	238	254	SILTSTONE, SOME SHALY SANDSTONE.
	254	274	SHALE, GRAY TO BLUE-GRAY
	274	278	SHALE, DARK GRAY TO BLACK, SLIGHT COAL SHOW.
	278	282	SANDSTONE, CALCAREOUS, SHALY
	282	306	SANDSTONE, CALCAREOUS, WITH SHALY SANDSTONE STRIATIONS
			Good oil show 287-288 - FLUORESCENCE + STAIN
			Good oil show 290-294 - " " "
			Good oil show 295-296 - " " "
			Good oil show 297-304 - " " "
	306	325	SHALE, GREY TO DARK GREY
		TD 325'	

RECEIVED
OCT 04 1993

MO Oil & Gas Council

W. C. LETHCHO
COUNTY ENGINEER & SURVEYOR
Bates County Court House
BUTLER, MO. 64730
Phone 679-4031

WELL REFERENCE TIES IN THE NE $\frac{1}{4}$ SE $\frac{1}{4}$
5-43-33 IN CASS COUNTY, MISSOURI.

SHEET 1 OF 2

FOR: PENSE BROTHERS DRILLING CO. INC.
ADRIAN, MO 64720
816-297-4433

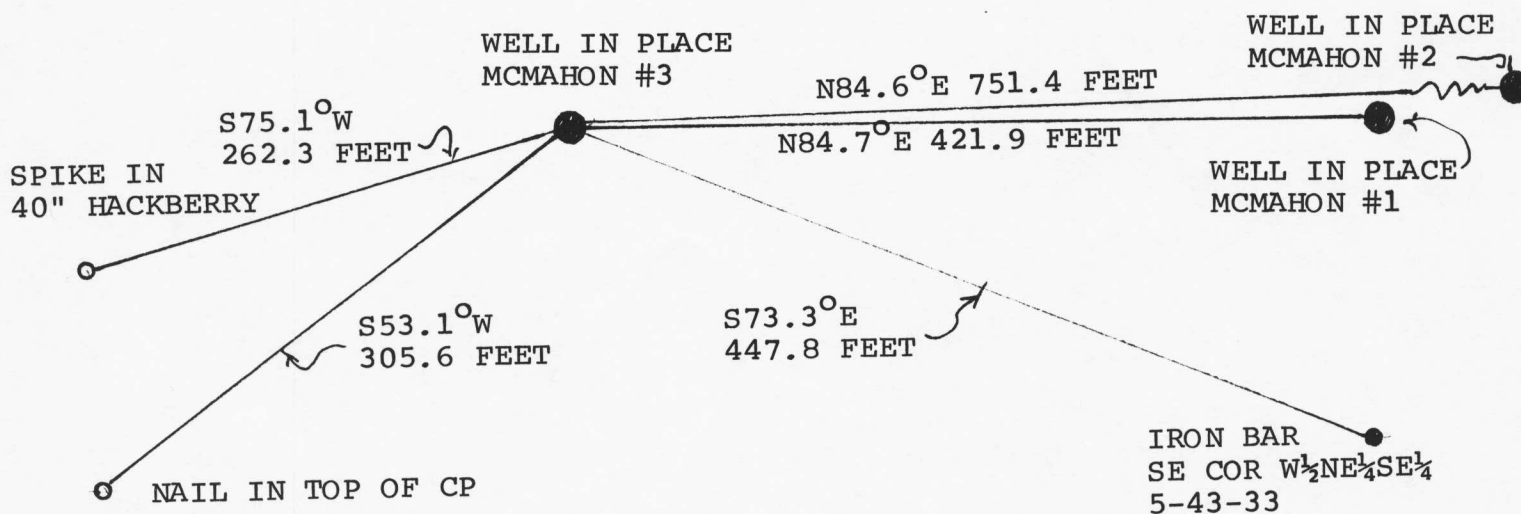


1"=100'

MAG BRGS
8° EAST DECL

THIS IS TO CERTIFY THE REFERENCE TIES SHOWN
ARE IN ACCORDANCE WITH CURRENT MINIMUM STANDARDS.

WILLIAM C. LETHCHO LS-1539 8-22-93



RECEIVED
SEP 01 1993

MO Oil & Gas Council

40

40.00 AC

MCMAHON

1080' 土

办社

†871.05

662 18

662 38

662 38

632 38

6

5

10

015

29 AC

2.011
19.85 AC

2.012
19.65 AC

MARKHAM

013
65 AC

2.014
48.75 AC

1010
36 AC

15. 662 40.

662 80

652 801

632 BD

1994

9

WELL LOCATION MAP
CASS CO TAX MAP 16-03

Sheet 2 of 2


$$1'' = 400' \pm$$

T43N R33W

8-2293